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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/932,763	08/16/2001	Xiaowei Deng	TI-29320	5414	
23494	7590 04/02/2002				
TEXAS INSTRUMENTS INCORPORATED			EXAMINER		
P O BOX 655 DALLAS, TX	5474, M/S 3999 K 75265		CHANG, D	ANIEL D	
			ART UNIT	PAPER NUMBER	
			2819		
				DATE MAILED: 04/02/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			W			
	Application No.	Appacant(s)				
	09/932,763	DENG, XIAOWEI				
Office Action Summary	Examiner	Art Unit				
	Daniel D. Chang	2819	I dua a a			
The MAILING DATE of this communication appeared for Reply	pears on the cover s	neet with the correspondence ad	iaress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. - after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin - earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however ly within the statutory minimu will apply and will expire SIX e. cause the application to be	r, may a reply be timely filed im of thirty (30) days will be considered timel (6) MONTHS from the mailing date of this c come ABANDONED (35 U.S.C. § 133).	y. ommunication.			
1) Responsive to communication(s) filed on 16	<u>August 2001</u> .					
2a) This action is FINAL . 2b) ☑ The	nis action is non-fina	l.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	_					
4) Claim(s) 1-16 is/are pending in the application						
4a) Of the above claim(s) is/are withdra	iwn from considerali	JN.				
5) Claim(s) is/are allowed.						
6) Claim(s) 1-16 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>16 August 2001</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on	_ is: a)□ approved	b) disapproved by the Examin	er.			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) 🔲 N	terview Summary (PTO-413) Paper No otice of Informal Patent Application (PT ther:				

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Receipt is acknowledged of the Preliminary Amendment filed August 16, 2001.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claimed limitation, "a gate tied to a floating substrate body" in claims 4, 8, 12, and 16 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "195" in figure 3 as described in page 8, line 8 of the specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽e) the invention was described in-

⁽¹⁾ an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

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(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-3, 5-7, 9-11, and 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Hagihara (US2001/0001229A1).

Hagihara discloses, in figure 1, a dynamic logic circuit (see paragraph 0005) comprising a pull-down network (10, it is inherent that transistors are connected in parallel or in series depending on whether the logic circuit is either NOR or NAND gate), a PMOS precharge circuit (14), an NMOS ground switch circuit (11), and an output node (60).

The recitation that "circuit on a SOI substrate" has not been given patentable weight because it has been held that a preamble is denied the effect of a limitation where the claim is drawn to a structure and the portion of the claim following the preamble is a self-contained description of the structure not depending for completeness upon the introductory clause. *Kropa* v. *Robie*, 88 USPQ 478 (CCPA 1951).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-7, 9-11, and 13-15 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hagihara.

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The teachings of Hagihara have been discussed above.

Even if the preamble, "circuit on a SOI substrate" was given a patentable weight, it is well known in the art that integrated logic circuits are built on silicon on insulator (SOI) substrates for minimizing physical size, reducing power consumption, and increasing speed.

Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to utilize SOI technique for the device of Hagihara to improve physical size, power consumption, and speed.

Claims 4, 8, 12, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagihara.

The teachings of Hagihara have been discussed above.

Hagihara does not disclose that at least one of the MOS transistors in the pull-down network has a gate tied to a floating substrate body.

However, it is well known in the art that a gate is tied to a floating substrate body in order to utilize low threshold voltage techniques. Therefore, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to tie a gate of the pull-down network to a floating substrate body of Hagihara because it will improve the circuit performance.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Anderson (US 5,530,659) discloses a dynamic circuit with a pull-down network

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having PMOS and NMOS or any other type of transistor (see col. 2, lines 66 through col. 3, lines 3).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (703) 306-4549. The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (703) 305-3493. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Daniel D. Chang

Examiner

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DC March 25, 2002